CLAIMS

I claim:

1. A controllably rotatable seat, which comprises:

a seat;

an arm attached to said seat;

a means for rotating said arm and said seat, said means for rotating having a point of rotation;

a platform, said arm being rotatably attached to said platform and said means for rotating being connected to said platform; and

a means for directing that rotation occur and directing that said seat and said arm be returned substantially to the pre-rotation orientation of said arm and said seat.

2. The controllably rotatable seat as recited in claim 1, further comprising:

a lever arm that connects said arm to said means for rotating so that the point of rotation of the means for rotating will be substantially aligned with the center of gravity of a participant sitting in said seat.

3. The controllably rotatable seat as recited in claim 2, wherein:

said means for directing comprises a timer in communication with said means for rotating.

4. The controllably rotatable seat as recited in claim 2, wherein:

said means for directing comprises:

one or more targets; and

a sensor capable of detecting said targets, said sensor communicating with said means for rotating.

5. The controllably rotatable seat as recited in claim 2, wherein:

said means for directing comprises:

a means for measuring a physical quantity selected from the physical quantities consisting of distance, speed, and acceleration; and

a logic unit through which the means for measuring communicates with the means for rotating.

6. The controllably rotatable seat as recited in claim 5, wherein:

said logic unit is programmable.

7. The controllably rotatable seat as recited in claim 2, wherein:

said arm and, consequently, said seat rotates at least ninety degrees.

8. The controllably rotatable seat as recited in claim 7, wherein:

said means for directing comprises a timer in communication with said means for rotating.

9. The controllably rotatable seat as recited in claim 7, wherein:

said means for directing comprises:

one or more targets; and

a sensor capable of detecting said targets, said sensor communicating with said means for rotating.

10. The controllably rotatable seat as recited in claim 7, wherein:

said means for directing comprises:

a means for measuring a physical quantity selected from the physical quantities consisting of distance, speed, and acceleration; and

a logic unit through which the means for measuring communicates with the means for rotating.

11. The controllably rotatable seat as recited in claim 10, wherein:

said logic unit is programmable.

12. The controllably rotatable seat as recited in claim 7, further comprising:

a means for retaining a participant to said seat.

13. The controllably rotatable seat as recited in claim 12, wherein:

said means for directing comprises a timer in communication with said means for rotating.

14. The controllably rotatable seat as recited in claim 12, wherein:

said means for directing comprises:

one or more targets; and

a sensor capable of detecting said targets, said sensor communicating with said means for rotating.

15. The controllably rotatable seat as recited in claim 12, wherein:

said means for directing comprises:

a means for measuring a physical quantity selected from the physical quantities consisting of distance, speed, and acceleration; and

a logic unit through which the means for measuring communicates with the means for rotating.

16. The controllably rotatable seat as recited in claim 15, wherein:

said logic unit is programmable.

17. The controllably rotatable seat as recited in claim 2, further comprising:

a means for retaining a participant to said seat.

18. The controllably rotatable seat as recited in claim 17, wherein:

said means for directing comprises a timer in communication with said means for rotating.

19. The controllably rotatable seat as recited in claim 17, wherein:

said means for directing comprises:

one or more targets; and

a sensor capable of detecting said targets, said sensor communicating with said means for rotating.

20. The controllably rotatable seat as recited in claim 17, wherein:

said means for directing comprises:

a means for measuring a physical quantity selected from the physical quantities consisting of distance, speed, and acceleration; and

a logic unit through which the means for measuring communicates with the means for rotating.

21. The controllably rotatable seat as recited in claim 20, wherein:

said logic unit is programmable.

22. The controllably rotatable seat as recited in claim 1, wherein:

said arm and, consequently, said seat rotates at least ninety degrees.

23. The controllably rotatable seat as recited in claim 22, wherein:

said means for directing comprises a timer in communication with said means for rotating.

24. The controllably rotatable seat as recited in claim 22, wherein:

said means for directing comprises:

one or more targets; and

a sensor capable of detecting said targets, said sensor communicating with said means for rotating.

24. The controllably rotatable seat as recited in claim 22, wherein:

said means for directing comprises:

one or more targets; and

a sensor capable of detecting said targets, said sensor communicating with said means for rotating.

26. The controllably rotatable seat as recited in claim 25, wherein:

said logic unit is programmable.

27. The controllably rotatable seat as recited in claim 22, further comprising:

a means for retaining a participant to said seat.

28. The controllably rotatable seat as recited in claim 27, wherein:

said means for directing comprises a timer in communication with said means for rotating.

29. The controllably rotatable seat as recited in claim 27, wherein:

said means for directing comprises:

one or more targets; and

a sensor capable of detecting said targets, said sensor communicating with said means for rotating.

30. The controllably rotatable seat as recited in claim 27, wherein:

said means for directing comprises:

one or more targets; and

a sensor capable of detecting said targets, said sensor communicating with said means for rotating.

31. The controllably rotatable seat as recited in claim 30, wherein:

said logic unit is programmable.

32. The controllably rotatable seat as recited in claim 1, further comprising:

a means for retaining a participant to said seat.

33. The controllably rotatable seat as recited in claim 32, wherein:

said means for directing comprises a timer in communication with said means for rotating.

34. The controllably rotatable seat as recited in claim 32, wherein:

said means for directing comprises:

one or more targets; and

a sensor capable of detecting said targets, said sensor communicating with said means for rotating.

35. The controllably rotatable seat as recited in claim 32, wherein:

said means for directing comprises:

one or more targets; and

a sensor capable of detecting said targets, said sensor communicating with said means for rotating.

36. The controllably rotatable seat as recited in claim 35, wherein:

said logic unit is programmable.